TABLE 3.—Late reports (instrumental).

Date.	Char- acter.	Phase.	Time.	Pe- riod. T.	Ampl	itude.	Dis- tance.	Remarks.
Date.		Phase.	Time.	riod. T.	Am	A _N		Remarks.

Hawaii. Honolulu. Magnetic Observatory. U. S. Coast and Geodetic Survey. Frank Neuman.

Lat., 21° 19' 12" N.; long., 158° 03' 48" W. Elevation, 15.2 meters.

Instrument: Milne seismograph of the Seismological Committee of the British Association.

Instrumental constant. 18.5

1917. Oct. 6		eP	H. m. s. 13 02 00	Sec.	μ	μ	km.	
		eL M C	13 06 24 13 07 00 13 09 00	19	*200		•••••	
		F	13 30 00					
7		eP eL M	15 21 54 15 49 00 15 57 12	26 18	*200			
		Ç	15 57 12 16 02 00 16 09 00					
- 14		eP	3 26 00 3 38 54	20 19				
		M C	3 43 54 3 49 00 3 58 00	19	*500			
17		eL	15 09 36	26	*****			
		M C F	15 18 42 15 24 00 15 37 00	18	*400			
22		eP	7 42 06 7 59 00	20				
		M C	8 01 12 8 03 00 8 43 00	18	*200			
23		eP	1 21 06					
		и С	1 24 30	18 18	*300			
24		F	1 33 00 1 49 00 3 03 06			•••••	•••••	
34		M	3 04 54 3 07 00	17	*100			
25	 -	eP	20 06 00 20 15 18	_{iš} .				
•		М С	20 06 00 20 15 18 20 24 18 20 27 00 20 51 00	19	*200			
27		e M		21 19	*100			
		Ċ	6 55 12 7 00 00 7 03 00 7 21 00					
28	ļ	eL	13 57 36 14 02 24	23 18	*200			
		C	14 05 00 14 35 00					
31		eP	2 27 00 2 35 00 2 39 42 2 44 00 2 57 00	20	******			
		М С F	2 44 00 2 57 00	19	*200			
				<u>t</u>	<u> </u>	<u> </u>	l	<u> </u>

*Trace amplitude.

New York. Ithaca. Cornell University. Heinrich Ries.

Lat., 42° 26′ 58″ N.; long. 76° 29′ 09″ W. Elevation, 242 meters.

Instruments: Two Bosch-Omori, 25 kg., horizontal pendulums (mechanical registration)

Instrumental constants. $\begin{cases} E & 13 & 22 & 4:1 \\ N & 14 & 25 & 4:1 \end{cases}$

1917. Oct. 19		eLn	H. m. s. 16 53 45 17 16	Sec.	μ	μ	km.
					1		ł
22	••••	FN	7 42 08 8 10				

SEISMOLOGICAL DISPATCHES.

Portland, Oreg, Nov. 16, 1917.

Mount Rainier has been shaken twice this week by earthquakes, according to Prof. John Plett, who has been in the Government service at Rainier National Park for many years. He declares rocks have come hurtling down the mountain side, and his office severely shaken. (Associated Press).

Melbourne, Australia, Nov. 18, 1917.

An earthquake of unusual intensity was recorded here to-day and also at Sydney. The disturbance was located approximately in the Kermadec Islands, a small British archipelago off the east coast of Australia. (Associated Press.)

MINNESOTA'S EARTHQUAKE OF SEPTEMBER 3, 1917.

By Prof. C. J. Posey.

[Dated: Department of Geology, University of Minnesota, Minneapolis, Nov. 28, 1917.]

It is well known that earthquakes occur much more frequently in some parts of the world than in others. In some regions a shock must be rather severe in order to receive more than passing notice, while in others even a slight tremor arouses general interest, so infrequently are earthquakes experienced. It is to this latter class that

the upper Mississippi valley belongs.

About 3:30 on the afternoon of September 3, 1917, a slight earthquake was felt in central Minnesota, which is of interest not so much on account of its severity, or lack of it, as of the fact of its occurrence. So far as the writer has been able to learn there are no written accounts of earthquakes within the limits of the State since its settlement. That they have occurred here we know from the testimony of old settlers. The Long Prairie Leader of September 6, 1917, quotes Hon. Wm. E. Lee, of that city, as saying that "the vicinity experienced a harder shock in 1860, one that would have done damage had the country been more thickly settled at that time. a recent letter to Mr. Warren Upham, Mr. Ora J. Parker, of Le Sueur, writes of an earthquake there on a Sunday afternoon between 1865 and 1870, a shock that was generally talked about the next day. It is not likely that these gentlemen refer to the same disturbance, for the dates do not coincide, and the two localities referred to are so far apart that a quake severe enough to be felt at the two places would have been more generally remembered.

The shock of September 3, 1917, was most severe at Staples, notheastern Todd County; at Lincoln, some 15 miles to the southeast in Morrison County; and at Brainerd, about 30 miles to the east, in Crow Wing County. Along a line running north of east and slightly oblique to this east-west line, the disturbance was felt at places approximately 110 miles apart; and along a line connecting Brainerd and Minneapolis it was felt for a maximum distance of about 120 miles. The total area over which the shock was felt was probably not more than 10,000 square miles. The distance it was felt east of Brainerd was about the same as that west of Staples; but along the northwest-southeast line it was felt several times as far to the south of Brainerd as to the north, thus showing that the disturbance was damped more rapidly northward.

¹ Heported by the organization indicated and collected by the seismological station at Georgetown University, Washington, D. C.